SARA SKYWAVES

KF5NBO

MARCH

THE NEXT SACHSE AMATEUR RADIO ASSOCIATION MEETING

Date and Time and Place: Thursday March 28, 2019 at 7:30pm at the Sachse Public Library Conference Room.

Presentation: All about WINLINK by John Galvin, N5TIM.

YOUR SARA CLUB NEEDS AN EDUCATION OFFICER.

Sponge Bob as Saint Patrick? Yep! You better suck it up. Otherwise, help the Sachse Amateur Radio Association locate its next education officer. That way the original image of Saint Patrick can return. Then all of us will be all smiles again. All of us can see that The Sachse Amateur Radio Association badly needs an education officer. Look at what I am saying and you to will agree. Do you know where the club's next educational presentation will come from? If you have contacts with other clubs then you can help. If you need some information about amateur radio then speak up to a club board member. If you have a presentation that you would like to make to the club please speak up to a club board member. It is not hard to speak with other club members in person and on the radio. Apply now. You can do it. We really do need your help. And I do not like a green Sponge Bob.

"MY CORNER OF THE SHACK"

Spring has sprung and folks are working on antenna project. If you see K5AXP (Leroy Michalow) try asking about his new non-antenna that you don't see on his house. He and KC6TVF (John Briggs) did a Vantenna (www.ventenna.com) (not sure if this is the brand but similar idea if not) installation recently and I'm hoping that they got our Newsletter Editor some pictures of the installation. I've seen pictures and they did a great job and I was lucky enough to be their first contact on this "non-existent antenna" ;-) . We are trying to get a presentation on stealth antennas queued up for one of our education sessions. I'll keep you posted.

Speaking of education, we are still in need of someone to serve as our Education Officer. You would not be the one doing education presentations at our monthly meetings but, you would help the BOD identify others who might be able to come in a[nd] present, contacting them and handling the scheduling. So, if you have a great curiosity about the different aspects of Amateur Radio (Digital Modes, AllStarLink or something else) then I would encourage you to seriously consider filling this position (you'd get to schedule things you want to learn more about). We've got a good start for you to come on board with us because we have the following presentations:

- March – WinLink – John Galvin (N5TIM)
- April – AREDN Networking – Andrew Koenig (KE5GDB)
- May – Scouting and Amateur Radio – Dale Finley (KB5NFT)
- June – Summer Field Day Planning (Summer Field Day is Jun 22-23)
- July – Dipole Antennas – Jim Eatman (KG5WAW)
- Aug - ????
- Sept – Board of Directors Election

It was great to meet Johnny Dao (call TBD) at the morning breakfast on the 23rd. He just passed his Tech license at the Richardson Wireless Klub's VE session on the 20th and one of the examiners (I think I know who) told him about us. Thanks KG5CK.

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Well, if you are itching to get outside and do some HAM activities, we're working on a number of things to help you do just that.

April has a number of opportunities for you to participate in this great hobby.

- ARRL NTX Section Mentorfest 2019 – April 27th at the Hella Shrine in Garland. You can find out more at this link - www.arrlntx.org/mentorfest
- HAM Radio in the Park – Antenna Build/Fox Hunt – April 28th at Salmon Park, 12 noon. We will have information about what is needed at our April meeting.

The BOD continues the initial planning for Summer Field Day (June 22-23). Plus there are bound to be volunteer opportunities that will allow you to practice the "art" of Amateur Radio at a public service event.

Don't forget to join us on our weekly net, Wednesday's at 8pm on the N5LOC repeater (145.25MHz, Minus shift, PL 141.3), watch for our Public Information Officer's (KC6TVF) emails, check our web site, and of course, read the newsletter.

Our next club meeting, at the Sachse Public Library, is on March 28th at 7:30pm.

73, W5JWS – John S

DO YOU HAVE A STORY FOR THE SARA NEWSLETTER

Send anything that you think should go into the newsletter to me at: sara.newsletter@ix.netcom.com.

SACHSE AMATEUR RADIO ASSOCIATION ACTIVITIES COMMITTEE

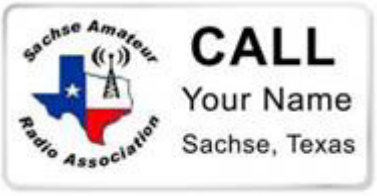
SARA vice-president Greg Kent, KK6AXF heads up the SARA Activities Committee. Anyone who is willing to help may contact Greg Kent, KK6AXF, at kk6axf@gmail.com.

SACHSE AMATEUR RADIO ASSOCIATION EDUCATION DIRECTOR

SARA education director [position vacant], can use your assistance. If you can suggest or provide an educational program for the weekly NET or for the monthly club meeting please contact [John Smyder at president@sachseradio.org].

NEED A SARA NAME BADGE

If you need a SARA name badge please go to https://namebadge.com/sachse.



LISTEN TO THE RAILROADS – (KF5FWK HAS LISTENED TO TRAFFIC ON ALL THESE FREQUENCIES)

Kansas & Oklahoma – Road: 161.085
Texas, Oklahoma &Eastern – Road: 160.230
Amtrak, Texas Eagle, Dallas Station Area: 160.410
Union Pacific & Amtrak, Texas Eagle, Big Sandy – SP Junction: 161.145
Burlington Northern Sanat Fe, Texas and Oklahoma and New Mexico: 160.560
(http://www.trainweb.org/dispatchoffice/roads.htm)(http://fl9.com/radio-frequency-lists)

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DOUG'S, AG5HB, ONE DAY HAM RADIO TECHNICIAN TRAINING CLASS AND EXAM

We had 10 students show up for the class. All 10 passed the Technician Exam, and 3 of them passed their General Exam. A couple of them plan on taking their Extra Exam in the next few weeks. All in all a great day!

73
Doug AG5HB

NORTH TEXAS ARRL SECTION MENTORFEST 2019 IS STILL PLANNED

From the SachseRadio Face Book Page:

John W Smyder III shared a post.

ARRL - North Texas Section
From SM Jay Urish:

After saying publicly that Mentorfest 2019 would not happen because I was leaving office and was loathe to start something that I might not finish, The demand was still high enough to go ahead and with the support of my ASM's and both candidates for my office, we are going to give it a shot.

The Hella Shrine is reserved for us April 27, 2019. We will use the same time slot layout we had last year.

TIME TO CATCH UP ON ALL THE NEWS

WEST GULF DIVISION NEWSLETTER JANUARY 2019

A special message from your Director

"Everything that the ARRL undertakes must be 100% for the general good. That policy bred loyalty and confidence. With those two things an organization can proper forever."
Hiram Percy Maxim , September 1927 QST.

History. I joined the ARRL Board in 2000 as Vice Director after Jim Haynie, W5JBP, was elected President and Coy Day, N5OK, moved up to Director. That is nearly twenty years ago! I never thought that I would spend nearly twenty years on the ARRL Board.

Legislation. During those years many things have happened in the West Gulf Division (WGD). Positive things that have improved the status of all amateur radio operators. One of the most important improvements apply to those living in Homeowner Association's properties all because of an active legislative agenda that was started while I was Vice Director, thanks to the approval of Coy Day, and continued after I became Director with the assistance of my Vice Director, John Stratton, N5AUS. Hundreds of man hours and inches of shoe leather were expended by the WGD's Legislative Team and, even with those sacrifices, the WGD's legislative agenda would not have been successful without the support of you, the member. When you were asked to contact your legislator, you did so immediately and enthusiastically. Whether the mission was to support legislation or, often more important, to kill legislation, you were there. Don't be surprised if you are asked to help again during this year's legislative session. Remember, whenever the legislature is in session, we are all at risk! HI HI

Hamfests and Conventions. I have attended many dozen over the years and I wish I could have attended more. Amateur radio operators are revitalized at Hamfest and conventions where forums have replaced flea market tables and Lifetime Learning has become the standard and there is so much to learn. The knowledge base for amateur radio has expanded exponentially and amateurs are actively seeking knowledge to effectively utilize the new technologies, especially the digital communication modes.

Technology. JT65, FT8, D-Star, Fusion, DMR and P25 today and who knows what will pop up tomorrow or the next day. Literally, there is no limit to where amateur radio can go with digital technologies in the future.

Volunteers. Without volunteers, the ARRL would fail. If you hold an ARRL volunteer position or if you are a club official, thank you for your service. If you are not either today, volunteer tomorrow and keep amateur radio strong. Like the Marines, the ARRL always needs a "few good men". The WGD has a rich history of volunteers doing a great job to keep amateur radio healthy and secure.

Friends. I have made so many and none of those acquaintances would have been possible had I not been a Vice Director and Director. I am truly blessed with good friends and good memories.

But. After twenty years, it is time for me to move on. At the end of the ARRL Board meeting, January 19, I will retire as Director and John Stratton, N5AUS, will move up to the Director position. A candidate is now being vetted to serve as John's Vice Director and an announcement should be forth-coming in a few weeks. Thank you for your support, your assistance, your friendship.

I promise I won't forget you if you don't forget me. We made history together and the future is ours to create. Thanks to all!

Good DX with no QRM

73
David, K5RAV [Dr. David Woolweaver, K5RAV]

THE ARRL LETTER FOR MARCH 7, 2019

DEMAND IS HIGH AS NEW ARRL INTRODUCTION TO EMERGENCY COMMUNICATIONS COURSES OPEN

The ARRL Lifelong Learning Department has launched a revised and updated Introduction to Emergency Communications (EC-001) course, and demand to sign up is prompting the recruitment of additional course mentors to expand the schedule. Registration just opened for the first of four EC-001 online sessions, which will run from Monday, April 1, until Friday, May 31.

"The demand for this course has exceeded our projections, and the four sessions scheduled for 2019 are already filling quickly," ARRL Lifelong Learning Manager Kris Bickell, K1BIC, said. "This course is designed to be interactive with mentors guiding each session, so we're seeking additional mentors and will schedule more course sessions as quickly as possible. Thanks for your patience as we expand capacity for this updated version of EC-001." Bickell is developing a notification list to alert those who didn't get into the first round of courses when a new round of sessions becomes available.

The new EC-001 course has been beta-tested by course mentors and transferred into a new online learning platform. With the closing last year of the Connecticut Distance Learning Consortium (CTDLC), EC-001 lost its virtual home and was taken offline. At that point, the ARRL Emergency Preparedness and Lifelong Learning teams started exploring short- and long-term alternatives to offer the course. After careful evaluation and review, a decision was made to move the course to a more modern learning management system called Canvas, which will be used while the new Lifelong Learning Initiative program is under development. EC-001 will eventually become a part of a comprehensive online learning environment.

EC-001 is designed to provide basic knowledge and tools for emergency communications volunteers. With the online format, students can access the course at anytime from anywhere.

"We're very excited to be able to offer Introduction to Emergency Communications EC-001 once again," Bickell said. "The Emergency Preparedness staff here has been incredibly helpful as we've worked together to get the course back up and running. Input from previous EC-001 mentors has been an invaluable part of the testing phase. The timing is right to put the course back online."

EC-001 is designed to provide basic knowledge and tools for emergency communications volunteers. With the online format, students can access the course at anytime from anywhere during the 9-week period and may work at their own pace and on their own schedule. As in the past, students will be able to register and take the course entirely online. The Canvas platform is also mobile-responsive, meaning that students can view the course materials, interact with fellow students, and complete assignments from any mobile device.

Individual EC-001 sessions will serve up to 30 students, supported by an experienced mentor. Courses are free of charge. To be eligible, students must meet certain prerequisites, listed on the registration page. The registration page includes the entire 2019 schedule of EC-001 sessions.

NEW ARRL PODCAST GEARED TOWARD NEWCOMERS TO AMATEUR RADIO DEBUTS TODAY

A new ARRL podcast aimed at newcomers to Amateur Radio will launch on Thursday, March 7. Called, "So Now What?," the podcast will alternate new-episode weeks with the "ARRL The Doctor is In" podcast. "So Now What?" will focus on answering questions and providing support and encouragement for new licensees to get the most out of the hobby. Co-hosting "So Now What?" will be ARRL Communications Content Producer Michelle Patnode, W3MVP, and W1AW Station Manager Joe Carcia, NJ1Q. The podcast will explore questions that newer hams may have and the issues that keep newcomers from remaining active.

"No other podcast is really aimed at this segment of the Amateur Radio community... that is being underserved, that is not getting the answers to the many questions they have," said ARRL Communications Manager David Isgur, N1RSN, who will serve as the podcast's executive producer.

"So Now What?" will be sponsored by LDG Electronics.

Topics to be discussed in the first several episodes include getting started, operating modes available to Technician licensees, VEC and licensing issues, sunspots and propagation, mobile operating, contesting, Amateur Radio in pop culture, and perceptions of Technician license holders.

As with "ARRL The Doctor is In," listeners will be able to find "So Now What?" on Apple iTunes, Blubrry, or Stitcher (free registration required, or browse the site as a guest) and through the free Stitcher app for iOS, Kindle, or Android devices...or wherever you get your podcasts. Episodes will also be archived on the ARRL website.

Sachse Amateur Radio Association

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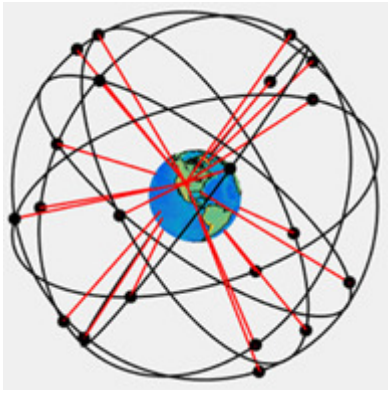
SARA SKYWAVES

MARCH

GPS NETWORK MAY EXPERIENCE ERRORS IN "WEEK NUMBER" ROLLBACK



The GPS network will encounter a small millennium bug of its own in April when the network's "week number" rolls back to zero. This known issue especially could affect those who use GPS to obtain accurate Coordinated Universal Time (i.e., UTC). In the GPS network, the number of the current week is encoded into the message the GPS receives using a 10-bit field. This allows for weeks ranging from zero to 1023. The current period began on August 1, 1999. On April 6, 2019, the week number rolls over to zero and starts counting back up to 1023.

This should not affect later-model GPS receivers that conform to IS-GPS-200 and provide UTC, but testing carried out by the US Department for Homeland Security (DHS) raised the possibility that some units may misinterpret the rollover, shifting the date back to January 6, 1980, or possibly to another incorrect date. An affected GPS not only may report the incorrect date, but time accuracy that is critical to precise location data could be compromised. A nanosecond error in GPS time can equate to 1 foot of position (ranging) error, according to DHS-published guidelines that explain the issue and suggest how to address it.

THE ARRL LETTER FOR FEBRUARY 28, 2019

BAKELITE PATENT AWARDED 100 YEARS AGO

Radio amateurs of a certain age are more familiar than most newcomers with the trade name Bakelite, which derives its name from its inventor Leo Baekeland, who developed Bakelite phenolic resin, the first thermosetting plastic, in 1907. His process patent for making insoluble products of phenol and formaldehyde -- the components of Bakelite -- was filed that year, and Baekeland was awarded a patent a century ago come this December. Bakelite found a place in numerous technologies, including early ham gear and radios, widely employed as an insulating material.

Once a Bakelite product is formed, it will not change shape or melt under heat. In compression molding, the resin is generally combined with fillers such as wood or asbestos before it's pressed into the ultimate product shape. Tube sockets often were constructed using Bakelite. It later found its way into such products as jewelry. In February 1909, Baekeland officially announced his achievement at a meeting of the New York section of the American Chemical Society.

CAROLE PERRY, WB2MGP, IS FIRST RECIPIENT OF AWARD NAMED IN HER HONOR

ARRL congratulates Amateur Radio educator Carole Perry, WB2MGP, for being the first recipient of the newly established Carole Perry Educator of the Year Award, presented on February 9 by Orlando HamCationÂ®. The award, to be given annually in Perry's name, recognizes outstanding dedication in educating and advancing today's youth about Amateur Radio.

A fellow and director of the Radio Club of America (RCA), Perry is a past Dayton HamventionÂ® Amateur of the Year and a recipient of the ARRL Instructor of the Year Award. She sits on the RCA Scholarship Committee and chairs the RCA Youth Activities Committee, which she established in 2007.

Perry has moderated the Hamvention Youth Forum for 31 years. The 2019 Orlando HamCation was the ARRL Southeastern Division Convention.

Please join us on the net (145.250 MHz, 141.3 PL) on Wednesdays at 8pm.

SARA SKYWAVES
KF5NBO
MARCH

THE ARRL LETTER FOR FEBRUARY 14, 2019

RILEY HOLLINGSWORTH, K4ZDH, TO OVERSEE VOLUNTEER MONITORS DEVELOPMENT AND IMPLEMENTATION

Riley Hollingsworth, K4ZDH, will oversee the development and implementation phases of ARRL's new Volunteer Monitors (VM) program, which will replace the Official Observers (OO) program. Hollingsworth, who once handled Amateur Radio enforcement for the FCC, has stepped down as ARRL Atlantic Division Vice Director to avoid any appearance of a conflict of interest. The development phase of the program is already under way.

"I am grateful for the Atlantic Division ARRL members supporting me, but I think I can better serve the Atlantic Division and all ARRL divisions by working in the Volunteer Monitors program," Hollingsworth said in his resignation letter. A new Atlantic Division Vice Director will be appointed.

ARRL President Rick Roderick, K5UR, said that Hollingsworth was the ideal person to lead ARRL's efforts in the development and implementation of this joint program with the FCC.

"I support Riley's decision to concentrate his efforts on this very valuable project on behalf of the ARRL," Roderick said.

Approved by the ARRL Board of Directors last July, the Volunteer Monitors will work in cooperation with the FCC. Volunteers trained and vetted by ARRL will monitor the amateur bands for possible instances of misconduct or to recognize exemplary on-air operation. Cases of flagrant violations or noncompliance will be directed to the FCC for action, in accordance with FCC guidelines. The program, which aims to re-energize Amateur Radio enforcement efforts, was proposed by the FCC following the closure of several FCC regional offices and reductions in field staff.

Hollingsworth has identified three phases to the program -- development, solicitation and training, and implementation. The development phase will include drafting a mission statement, clearly defining ARRL's and the FCC's requirements and needs as part of the program, drafting a Volunteer Manager job description, and developing a training manual for volunteers.

The solicitation and training phase will involve identifying the geographical locations where volunteer monitors will be most needed, soliciting applications, and screening applicants. Current Official Observers will be invited to apply for appointment as Volunteer Monitors (VMs). The ARRL Board has expressed its appreciation to the OOs for their dedicated volunteer service over the years.

Implementation will involve having the volunteers provide field reports, and ARRL staff offering guidance to volunteers to ensure that the information gathered meets FCC requirements. Continuing education will be provided to the volunteers as part of the program.

Hollingsworth has committed to ensure training adequacy for new VMs, to review the quality and utility of Volunteer Monitor submissions to the FCC for enforcement action, and to advocate for rapid disposition of cases appropriately submitted to the FCC.

ARRL officials estimate that it will take 9 - 12 months before the first Volunteer Monitors begin filing reports.

Sachse Amateur Radio Association
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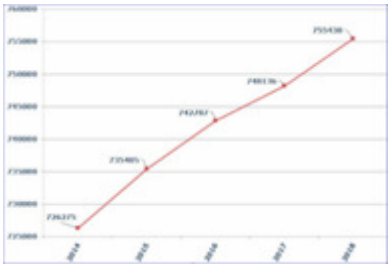
MARCH

US AMATEUR RADIO POPULATION GROWS SLIGHTLY IN 2018



The US Amateur Radio population once again grew by about 1%, based upon 2017 and 2018 year-end FCC database statistics provided by Joe Speroni, AH0A. The 755,430 total licensees represent nearly 7,300 more license holders than those that were in the database at the end of 2017. Nearly 51% of the Amateur Radio population in the US -- 384,145 -- hold a Technician license. Generals are second with 175,949, and Amateur Extras number 147,369. Advanced and Novice licensee populations continue to decline, with 39,607 Advanced and 8,360 Novices, as the FCC no longer issues Advanced or Novice licenses. A more significant statistic is 31,576 new FCC licenses last year, although that's 620 fewer than came aboard in 2017.

"New amateur licenses granted by FCC are down 2% over last year," noted ARRL Volunteer Examiner Coordinator (VEC) Manager Maria Somma, AB1FM, "but this is the fifth year in a row the total has been greater than 31,000. I predict that the number of new licensees will be more than 30,000 at the end of this year as well, and I'm optimistic this trend will continue."

Upgrades also are down slightly, compared to last year -- 9,456 in 2018 versus 9,576 in 2017, she added. "For the fifth year in a row, we have conducted more than 7,000 Amateur Radio exam sessions in a year -- an important milestone for the ARRL VEC," Somma recounted. "Our program continues to provide outstanding service to the ARRL, its members, and the entire Amateur Radio community."

ARRL VEC filed a total 30,393 license application forms last year, compared to 31,014 in 2017. That includes new, upgrade, modification, renewal, and club station filings. At 7,035 in 2018, the number of exam sessions conducted by ARRL VEC marginally trailed the 7,075 held in 2017. ARRL VEC served 34,493 exam applicants in 2018, compared to 35,352 in 2017. Exam elements administered by ARRL decreased from 47,152 last year to 45,817 this year, Somma said. Nearly 1,800 new Volunteer Examiners (VEs) have been added to the ARRL VEC program

WWV 100th ANNIVERSARY SPECIAL EVENT OPERATION IN THE PLANNING STAGES

It's a celebratory year for the WWV stations. The fiscal year (FY) 2019 budget -- once signed -- will include full funding for the stations, which also mark their 100th year this fall. The WWV Centennial Committee has a tentative agreement with the National Institute of Standards and Technology (NIST) to mount a special event station this fall adjacent to the WWV site in Colorado to mark the 100th anniversary of the time and frequency standard station, the world's oldest continuously operating radio station. A memorandum of understanding is in the works.

Dave Swartz, W0DAS, of the Northern Colorado Amateur Radio Club (NCARC) heads the committee, which is developing plans for an NCARC special event from September 28 through October 2, with a NIST centennial observance tentatively set for October 1.

The NIST budget for WWV, WWVH, and WWVB will remain level for FY 2019. With the funding suspense over, Swartz told ARRL, "our committee is moving forward."

Swartz and committee members Darren Kalmbach, KC0ZIE, and Kevin Utter, N7GES, met on February 8 with WWV/WWVB/WWVH Station Manager John Lowe, WWV Electronics Technician Glenn Nelson, and WWV Chief Engineer Matt Deutch, N0RGT.

"This was the first meeting for the committee and the first to include NIST upper management," said Swartz, who called the meeting "very productive." Swartz said NIST management is "on board" with the celebration, and Deutch plans to attend Hamvention May 17 - 19 to promote the centennial event.

Although the US government cannot fund any Amateur Radio special event expenses, the club members will be allowed to use a 15-acre parcel on WWV property, Swartz explained on the WWV Centennial website. "The operating site lies outside the security fence and simplifies logistics," he said.

Swartz hopes that other clubs in Colorado will be able to pitch in to make the WWV Centennial a success.

THE ARRL LETTER FOR MARCH 24, 2019

Greetings fellow North Texans,

Due to recent and unforeseen personal reasons, I am stepping down as the North Texas Section Emergency Coordinator and Assistant Section Manager effective April 1, 2019. The incoming Section Manager, Steve Smith KG5VK has accepted my resignation effective on that date.

I can't tell you what an honor and privilege it has been serving you. I can't express enough gratitude for the support I've received from so many of the Emergency Coordinators and District Emergency Coordinators, as well as so many ARES members.

While I'm scaling back my role as a section official, I am not scaling back my support for the North Texas Section and the League. We have come a long way in the past two years, but there is still a long way to go. I'm excited about having an enthusiastic incoming section manager, and look forward to his, and his team's accomplishments for the North Texas Section.

As I step down from the two section leadership positions, I still continue look forward to participating in my local ARES group. My personal email address is hydrashok407@gmail.com, and my cell phone number is 430-342-3376, and Winlink address is W5BFF.

I can say it over and over again, and it still wouldn't be enough... so, one more time, thank you.

-=Jerry A. Goodson=- W5BFF
ARRL North Texas Section Emergency Coordinator
Texas State RACES District 5 Radio Officer

OTHER NEWS

THE NCVEC HAS RELEASED ERRATA SHEET

The NCVEC Question Pool Committee hereby Releases the SECOND & FINAL ERRATA and Associated MSWord.docx File for the 2019-2023 General Class Question Pool. http://www.ncvec.org/page.php?id=364

DO YOU WANT A FULL TIME JOB WORKING FOR THE FCC IN DALLAS

This position is located in the Federal Communications Commission, Enforcement Bureau, Office of the Field Director, in Dallas, Texas. Performs comprehensive investigations of unauthorized or unlawful radio operation and comprehensive inspections of all classes and types of installations employing RF energy. Performs comprehensive investigations of unauthorized or unlawful radio operation and comprehensive inspections of all classes and types of installations employing RF energy. https://www.usajobs.gov/GetJob/ViewDetails/527755400

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KF5NBO

MARCH

VENTENNA FOR HOA

John Briggs, KC6TVF

How about a 30 foot tower with a dual band antenna in a HOA subdivision? Think it is not possible? Well, last weekend, Leroy KF5DAT, and I installed a Ventenna on a 2 story house with a high roofline. If you do the math, I think you will come out with at least a 30 foot "tower". Only took about 3 hours and that included running the coax inside a wall and installing a box. We started with the attic portion, cutting the vent stack pipe and installing a PVC Y. On the roof, the vent and the Ventenna are both 2 inch PVC. We sleeved the two together with a 2 foot piece of 1.5 inch PVC. A little tape to make a snug fit and they are slipped together with the coax down the vent. Inside we fished the coax out of the Y and ran it through a plug. The opening in the plug was sealed with coax sealer. All that was left to do was run a piece of coax over to the wall and down to the box we installed in the drywall. This seems like an excellent idea for the many HOA restricted homes we have in the Sachse area. This is a very high antenna, outside the attic, and clear of those reflective barriers.

MARCH

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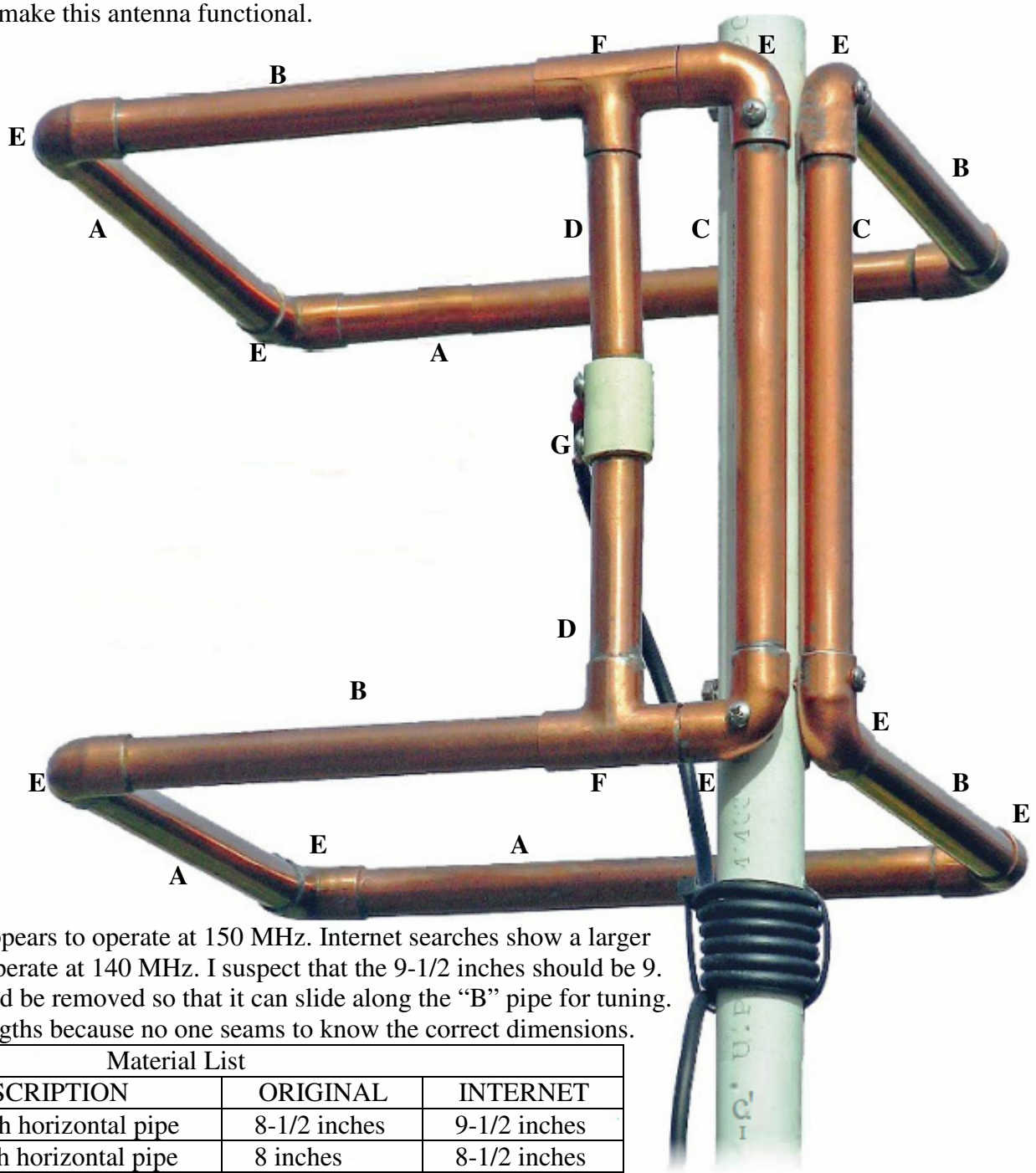
BUILD YOUR OWN 2 METER ANTENNA – OMNIDIRECTIONAL – SLOT-CUBE

Experiment as needed to make this antenna functional.



The published antenna appears to operate at 150 MHz. Internet searches show a larger antenna that appears to operate at 140 MHz. I suspect that the 9-1/2 inches should be 9. The stops in the tee should be removed so that it can slide along the "B" pipe for tuning. Experiment with pipe lengths because no one seams to know the correct dimensions.

Material List			
QTY	DESCRIPTION	ORIGINAL	INTERNET
4	A – ½ inch horizontal pipe	8-1/2 inches	9-1/2 inches
4	B – ½ inch horizontal pipe	8 inches	8-1/2 inches
2	C – ½ inch vertical pipe	7 inches	7 inches
2	D – ½ inch feed point pipe	3-1/4 inches	3-1/4 inches
10	E – ½ inch pipe elbows		
2	F – ½ inch pipe tees*		
1	G – CPVC ½ inch coupling		

* The center of the pipe tee is cleared with a file or a 5/8 inch drill bit so that the tees slides freely over the ½ pipe
Trim the right side of both tees if needed to get closer to the vertical pipe if needed to get a good SWR.
For more information see: https://w6nbc.com/articles/2019-01QSTcubeslot.pdf
Please join us on the net (145.250 MHz, 141.3 PL) on Wednesdays at 8pm.

About AmazonSmile

What is AmazonSmile?

AmazonSmile is a website operated by Amazon that lets customers enjoy the same wide selection of products, low prices, and convenient shopping features as on Amazon.com. The difference is that when customers shop on the AmazonSmile web site smile.amazon.com, <https://smile.amazon.com/ref=org_sls_ulp_sas_sml>, the AmazonSmile Foundation will donate 0.5% of the price of eligible purchases to the charitable organizations selected by customers.

How does AmazonSmile work?

When first visiting AmazonSmile, customers are prompted to select a charitable organization from almost one million eligible organizations. In order to browse or shop at AmazonSmile, customers must first select a charitable organization. For eligible purchases at AmazonSmile, the AmazonSmile Foundation will donate 0.5% of the purchase price to the customer's selected charitable organization.

What purchases are eligible for donations?

Tens of millions of products on AmazonSmile are eligible for donations. You will see eligible products marked "Eligible for AmazonSmile donation" on their product detail pages. Recurring Subscribe-and-Save purchases and subscription renewals are not currently eligible.

How does my organization receive the donations?

Each quarter, the AmazonSmile Foundation makes donations to eligible charitable organizations by electronic funds transfer. Donations will be transferred approximately 45 days after the end of each calendar quarter. To account for Product returns, a portion of the quarterly donations will be withheld until the next donation cycle, subject to any reduction due to returns from prior quarters. See the AmazonSmile Participation Agreement, <https://org.amazon.com/npo/portal>, for more details.

What is the AmazonSmile Foundation?

The AmazonSmile Foundation is a 501(c)(3) private foundation created by Amazon to administer the AmazonSmile program. All donation amounts generated by the AmazonSmile program are remitted to the AmazonSmile Foundation. In turn, the AmazonSmile Foundation donates those amounts to the charitable organizations selected by our customers. Amazon pays all expenses of the AmazonSmile Foundation; they are not deducted from the donation amounts generated by purchases on AmazonSmile.

Join in the fun. Don't be shy. Meet your fellow club members on the radio. Hear all the gossip. Learn a few things about amateur radio. Keep up to date on upcoming SARA amateur radio events.

Join in the fun. Become a Net Control Operator. You may find that you have a hidden talent. Try it once. If you like it sign up for more. Contact the SARA Public Information Officer John Briggs, KC6TVF for more information. jsbriggs@yahoo.com

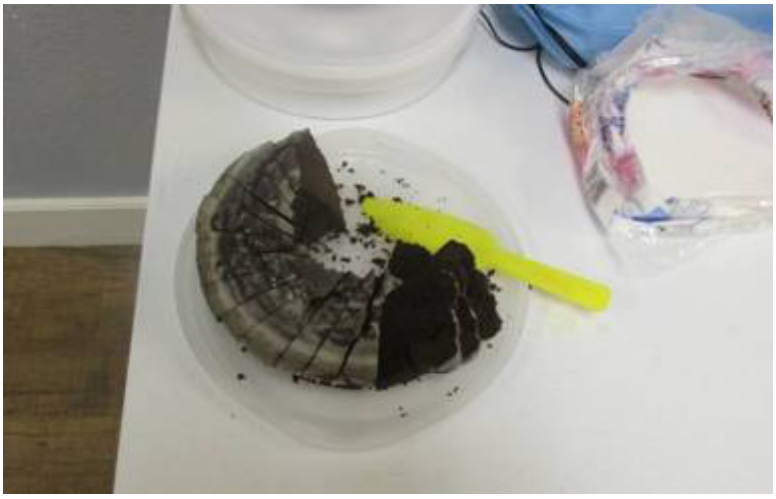
Please join us on the net (145.250 MHz, 141.3 PL) on Wednesdays at 8pm.

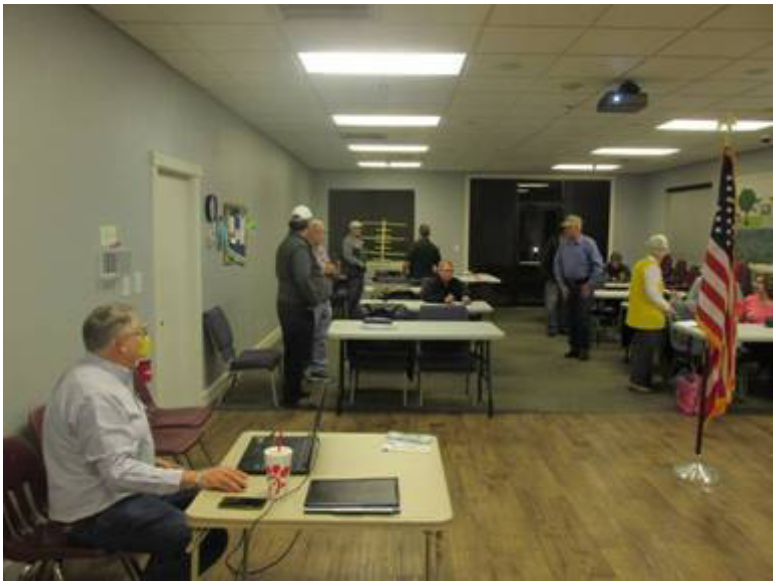
SARA SKYWAVES

KF5NBO

MARCH

SACHSE AMATEUR RADIO ASSOCIATION MONTHY CLUB MEETING, 02-28-2019





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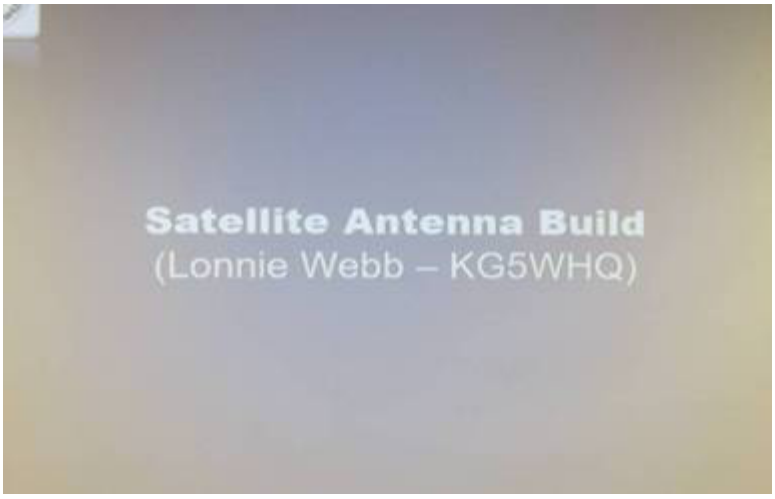

SARA SKYWAVES

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MARCH

SACHSE AMATEUR RADIO ASSOCIATION MONTHY CLUB MEETING, 02-28-2019

Sachse Amateur Radio Association
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MARCH

DO IT YOURSELF: MURANIA, A BROADCAST BAND RECEIVER DESIGNED BY DAVID CRIPE, NMØS

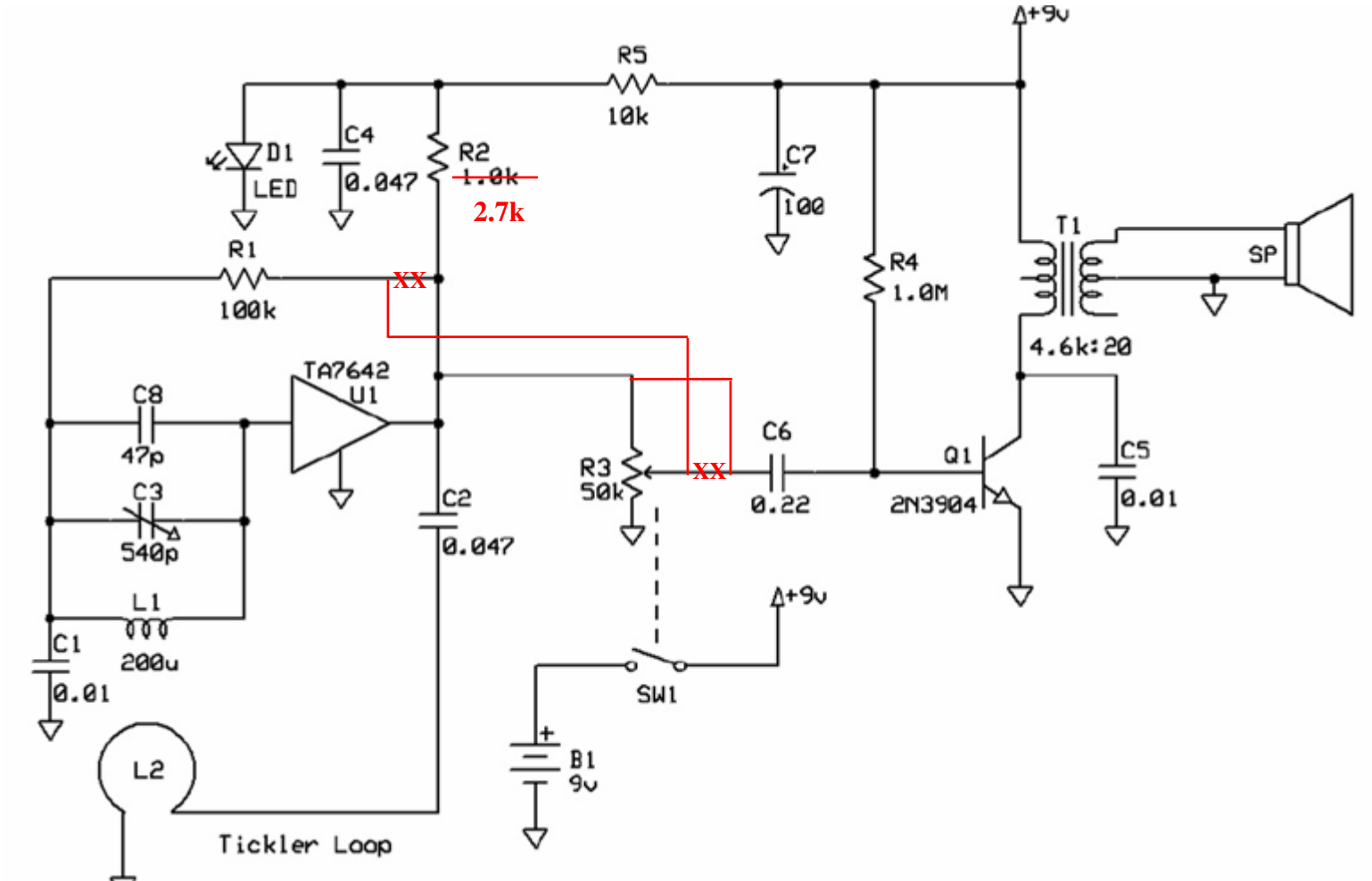
Jim Marco, WB2LHP, came up with a couple of modification to the Murania receiver that was in last months newsletter. These modifications improve the performance in area where there are high power or nearby AM stations that overload the receiver. Jim's modifications are easy to perform and are easily removable if desired. Be sure to disconnect the 9-volt battery before performing these modifications.

The first modification changes the behavior of the volume control from being a audio level control to performing as a RF gain control. The audio amplifier will now run wide open. Adjust R3 for the best sounding audio.

- Float the wiper lug of R3 (Heating up the solder joint and lifting that leg does the trick)
- Place a jumper between the pads for the R3 wiper and the high side of R3
- Lift the leg of R1 that intersects with R2 and R3
- Connect a jumper between the floated leg of R1 and the wiper of R3

The second modification that Jim did is to change the value of R2 from 1K to 2.7K to reduce audio distortion.

The third modification is optional. Increase L1 from 37 turns to 61 turns and remove C8. This centers the frequency coverage and makes the dial tracking spot on.



Go to: http://www.4sqrp.com/Murania.php for details.

Please join us on the net (145.250 MHz, 141.3 PL) on Wednesdays at 8pm.

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MARCH

SACHSE AMATEUR RADIO ASSOCIATION – SATURDAY BREAKFAST – 03-23-2019

CHARLES ANDERSON'S, KE5RFS(SK), EQUIPMENT FOR SALE
CONTACT JOHN BRIGGS, KC5TVF, FOR ADDITIONAL DETAILS

		Brand	Model #	Approx New Price	Approx Current Used Value	Notes
1	1	Yaesu	VX-7R	$175.00	$160.00	has box and carry case
2	1	Diawa	CN-801	$149.95	$99.95	
3	1	Kenwood	MC-60A	$139.00	$87.99	has box
4	1	Juentai	JT-6188 mini	$96.89	$68.00	has box
5	1	Yaesu	FT-60	$300.00	$230.19	no box, has call signs KE5QVJ sticker- maybe belongs to SARA?
6	1	Yaesu	FT-7800R	$290.00	$220.00	has box
7	1	Astron	SS-30M	$253.00	$220.00	
8	1	Diamond	MX-2000	$112.00	$90.00	no box
9	1	MFJ	MFJ-817	$99.95	$85.00	no box
10	1	Yeaesu	MH-48A6JA	$59.95	$20.00	damaged cord, has box - likely old one - spare
11	1	Polyphaser	IS-B50HU-C1	$78.50	$60.00	
12	1	Comet	SMA-24	$29.80	$20.00	new in pkg - antenna
13	1	Yaesu	MH-34	$31.00	$20.00	no box
14	1	Maldol	MH-510	$32.95		antenna
15	1	Nagoya	NA-761	$14.97		antenna
16	1	MFJ	MFJ-1717S	$27.64		antenna is on radio already - price to be added to purchase of radio
17	1	MFJ	MFJ-108B	$21.95		in box
18	1	Panasonic	RP-HT227	$13.97		headphones - no box
19	1	Radio Shack	N/A	$-	$-	headphones - no box
20	1	?	11A99	$-	$-	magnetic antenna - used
21	1	MTC	UV-3R	$55.95	$35.00	radio on stick - has box
22	1	?	?	$-	$-	magnetic antenna - used
23	1	Kenwood	TS-2000	$1,399.95	$995.00	Kenwood base unit
24	2	?	?	$69.00	$50.00	Mobile stainless stell telescoping antenna
25	1	Juentai	X000SNPKUP	$50.00	$20.00	usb programming cable
26	1	Bird	Model 43	$329.00	$269.00	Thruline Watt meter
27	1	Bird	Misc	$100.00	$85.00	wattmeter elements
28	1	Radio Shack	PRO-2042	$99.00	$60.00	1000 channel scanner
29	1	Rig Expert	AA-600	$595.00	$500.00	Antenna analyzer
30	1	Kenwood	SP-23	$150.00	$85.00	Kenwood external speaker
31	3	Misc		$30.00		$30 each new - programming cables
32	1	Heil	HM-10	$100.00	$80.00	microphone
33	1	Mirage	B-310-G	$269.00	$220.00	2 meter power amp

34	1	Astron	RS-35A	$177.00	$149.00	35 amp DC power supply
35	1	Astron	RS-7A	$93.00	$86.00	7 amp power supply
36	1	Yaesu	FT-1802			FM transceiver
37	1	Diawa	CX-201A	$38.00	$25.00	coax switch
38	1	Vanco	SWR-3	$9.95	$2.00	swr meter - from fry's
39	1	?	?	$-	$-	heat sink
40	1	MFJ	MFJ-921	$79.95	$49.00	dual band tuner
41	1	Kay	70-0	$-	$-	attenuator - cannot find pricing
42	1	Meteos	Skywatch Sport Line	$104.95	$75.00	Wind speed temp meter

All of these items are still for sale.

AMATEUR RADIO OPERATORS DREAM HOUSE FOR SALE -$595.000

Mike, W8CM, is selling his country Van Alstyne, ham friendly, 15 acre QTH, including 3 serious towers fed with heliax.

- 335 Hidden Trail, Van Alstyne, TX 75495
- Easy commute to Dallas-Fort Worth, Plano, Frisco, McKinney, etc.
- Property on a country hill and contains 15+ acres, no HOA or restrictions. Small pond.
- 3 towers in place, fed with Heliax; a 72’ s/s, a 64’ s/s, and a 90’ rotating tower (at 60’ up).
- The 64’ tower rated at 25 sq. ft. and 90 mph; 72’ tower rated 18 sq. ft. at 90 mph, rotating tower guyed with Philystran.
- House is a 3,064 sq. ft. brick two story with 4 bedrooms and 3-1/2 bathrooms
- Extra large 4-car garage with workspace
- Includes a 30KW Kohler whole house propane generator with auto transfer switch.
- Includes a 5KW solar power system (grid tied).
- Interior of house is eye catching wood; see pictures.
- House has steel roof for lifetime hail protection and wind resistance up to 110 miles/hr. Roof also has radiant barrier.
- Wood burning fireplace, formal dining room, and spacious eat-in kitchen

Pease contact Lynda Tuma with Re/MAX First Realty III, at lyndatuma@gmail.com or (972) 814-4190.
http://www.announcemymove.com/announcement.php?id=19685805&code=MPQMauL06

Please join us on the net (145.250 MHz, 141.3 PL) on Wednesdays at 8pm.

Free Event! - Hosted by the Hella Hams and the ARRL North Texas Section
When: April 27, 2019 Time: 9:00am - 4:00pm
Location: Hella Shrine Center, 2121 Rowlett Rd., Garland, TX 75043

The Garland Hella Hams and the ARRL North Texas Section would like to invite all current and prospective Hams to attend Mentorfest! This event is a great way for Hams, especially those recently licensed, to meet and learn about a variety of subjects. Amateur radio operators have a great tradition of helping each other learn about and gain experience in the many facets of the hobby. Mentorfest is designed to build on this tradition by providing a place for Hams of all ages and experience levels to come together, exchange knowledge and make new friends while having fun and enjoying the great hobby of Amateur Radio.

Mentorfest will feature....

- Formal presentations on a number of topics.
- Local clubs providing information on their activities.
- "Elmers" (ham-speak for mentors) available for informal discussions on just about any topic.
- Tours of emergency communications vehicles.
- Representatives from the ARRL, Local Clubs, ARES/RACES, and others showing how you can get involved.

Mentoring

In addition to the formal presentations, mentoring will be available on a large range of topics. Many amateur radio clubs, individual Hams and organizations with ties to amateur radio will be at Mentorfest to answer questions and provide demonstrations in a very informal setting.

If you have something amateur radio related that you would like to show and tell about, please consider attending Mentorfest. Your excitement about a favorite subject might be an inspiration to another Ham. Come share your knowledge and experience. Email mentorfest@arrlntx.org to be a mentor.

Participants & Volunteers

All ARRL affiliated clubs are encouraged to participate in Mentorfest by at least having an information table with club representatives. The ARRL will be promoting Mentorfest to new Hams so there should be opportunities for clubs to recruit new members. If your club or group is interested in participating in Mentorfest, please send E-mail to mentorfest@arrlntx.org. This event is free for everyone!

Volunteers are needed to help will the following tasks.

Parking lot control for EMComm vehicle static displays.

Greeters to help direct attendees to where to get the answers they seek.

Email mentorfest@arrlntx.org to volunteer.

Sachse Amateur Radio Association
KF5NBO
SARA SKYWAVES
MARCH

OPERATING CLOSED

My latest radio box for my Icom IC-7100, by Jeffery Lock, N5LOC

The last one, which was made from two separate boxes, became problematic because the cable from the radio to the tuner did not like getting disconnected and reconnected every time I set up. The lid on this box becomes the stand to hold the head when operating. A completely accidential feature. Notice the blank spot next to the radio body on the 2nd shelf from the bottom? This is actually a box that holds the head during transport and storage. Another accidential feature.

Please join us on the net (145.250 MHz, 141.3 PL) on Wednesdays at 8pm.

MARCH

SAVORY PARMESAN BREAD

Ingredients:

- 1/2 cup grated Parmesan cheese
- 1/2 teaspoon salt
- 1/2 teaspoon freshly ground black pepper
- 4 cans Pillsbury® Grands!® Flaky Layers refrigerated biscuits
- 1 cup shredded Parmesan or mozzarella cheese (4 oz)
- 3/4 cup butter, melted
- 1 teaspoon minced garlic (2 medium cloves)

Directions:

1. Heat oven to 350°F.
2. Spray 6-cup (9-inch) fluted tube cake pan or angel food (tube) cake pan with cooking spray.
3. In large food-storage plastic bag, mix grated Parmesan, salt and pepper.
4. Separate each can of dough into 8 biscuits; cut each into quarters.
5. Place biscuit pieces in Parmesan mixture; shake well.
6. Layer biscuit pieces and shredded cheese in pan.
7. In small bowl, mix melted butter and garlic with whisk. Drizzle over biscuits and cheese in pan.
8. Bake 35 minutes or until golden brown.
9. Cool in pan 10 minutes.
10. Place plate upside down over pan; turn plate and pan over. Remove pan. Serve warm.

Send me your favorite receipt and I will publish it here in the newsletter.
Send it to: sara.newsletter@ix.netcom.com.

Sachse Amateur Radio Association
Meeting Minutes
February 28, 2019

Start time: 7:30 pm
Location: Sachse Library
Facilitator: John Smyder (W5JWS), President

Opening
- Jeff Locke – (N5LOC)
  - Opened the meeting by leading the Pledge of Allegiance
- John Smyder – (W5JWS)
  - Everyone introduced themselves and gave their call sign

Attendees
- 13 members
- 1 guest

President's report – John Smyder – (W5JWS)
- QSO breakfast – Saturday 8:00 at Woodbridge Café in Sachse
- Next board meeting is March 14
- Next general meeting is March 28
- Sachse Club has 3 new members from visitors to the Dallas County Skywarn Class held in Garland
- Need volunteers to help with Summer Field Day

Vice-President – Greg Kent – (KK6AXF)
- Ham Radio in the Park – April 28th
  - Salmon Park
  - Start building antenna at noon
  - Fox Hunt afterwards
- Summer Field Day – June 22nd and 23rd

John Smyder – (W5JWS)
- A club pop-up canopy with the club logo to use at events will cost $390
- Jeff Locke – (N5LOC)
  - Made a motion to spend not more than $390 for the canopy with the logo
- Lonnie Webb – (KG5WHQ)
  - 2nd the motion

Discussion followed concerning the price, with tax or not, and type of canopy, and printed logo or attached logo
- John Abbott – (KF5FWK)
  - Suggested to amend the motion up to but not over $400
- Bill Caldwell – (AC5BC)
  - Asked if ARRL was contacted for a price and requested the board to get 3 quotes and present again at the next meeting
- Motion was tabled until the March general meeting and
- Greg Kent – (KK6AXF)
  - Will have 3 quotes for the March general meeting

Sachse Amateur Radio Association
Meeting Minutes
February 28, 2019

Secretary – Johnnie Young – (KG5CQO)
- Minutes have been submitted and are on the web site and in the newsletter
  - Motion to accept— David Mandala – (KG5WFS)
  - 2nd to accept motion – Gregg Kent – (KK6AXF)
  - All agreed – motion passed

Treasurer – David Mandala (KG5WFS)
- Report was presented and reviewed
  - Motion to accept – Bill Caldwell – (AC5BC)
  - 2nd to accept motion – John Abbott – (KF5FWK)
  - All agreed – motion passed

Information Officer – John Briggs (KC6TVF)
- Need volunteers for NCS
  - March 6 – Jeff Locke (N5LOC)
  - March 13 – Johnnie Young (KG5CQO)
  - March 20 -- John Smyder (W5JWS)
  - March 27 – Lonnie Webb (KG5WHQ)
  - April 3 – Mark Mantooth (KI5CYA)

John Briggs – (KC6TVF)
- Reminded everyone the Sachse Cert G317 class would continue this Saturday, March 2nd
- Please dress for bad weather

Newsletter Editor – John Abbott (KF5FWK)
- News letter was sent via e-mail and is on the SARA web site
- Thanks to all who sent many pictures included in this newsletter
- Always can use news articles and recipes
- Take pictures at all events & send to John
- Take pictures of your antenna or shack set up
- Info should be sent to John Abbott (KF5FWK) by the Monday before the next meeting

Director-at-large – Jeff Locke – (N5LOC)
- The Sachse Radio Club is improving and expanding
- Mesquite Club, KE5NUB will be doing a training net for Digital mode
  - 1st 15 minutes for setting up
  - 2nd 15 minutes for testing the set up
- Irving Ham Fest is Saturday, March 2 – 8:00 am to 1:00 pm
- Belton Fest is April 6
- Mentor Fest is April 27 with testing from 9:00 am to 4:00 pm
- Consider inviting the new ARRL section Manager, Steve Lott, KG5VK to a Sachse Club Meeting

Sachse Amateur Radio Association
Meeting Minutes
February 28, 2019

Education Officer's report – John Smyder – (W5JWS)
- Future Events
  - February – Satellite Antenna Build – Lonnie Webb – (KG5WHQ)
  - March – Winlink
  - April -- possibly Arden or D-Star
  - May – Scouting Amateur Radio
  - June – Summer Field Day Planning
  - July – Dipole and Homemade Buddy Pole
  - August – opened
  - September – Board of Directors elections
- Need an Education Officer

Bill Caldwell – (AC5BC)
- June 29 – Blue Grass on Ballard – need help parking cars

John Abbott – (KF5FWK)
- Supplies for tape measure antenna—will discuss during March General Meeting

David Mandala –(KG5WFS)
- Wylie Library request a radio class, giving general information sometime in May

Bill Caldwell – (AC5BC)
- April 9 – the East Fork Masonic Lodge in Wylie has its Fish fry and blood drive fund raiser

8:10 break
8:22 reconvened

Lonnie Webb – (KG5WHQ)
- Displayed and discussed his Satellite Antenna built form yard sticks and metal tape measure
- He used 4-yard sticks, about two-yard sticks long and doubled for strength with various lengths of metal tape measure for the elements
- He showed how everything is not connected
- He demonstrated how to aim to get the best signal
- This is for 2 meter and 70 cm, thus useful with an HT with no squelch
- He compared his homemade antenna to a similar Arrow antenna which has all sections connected but the driven element
- The Arrow cost about $250 and his about $80 with the coax being the most expensive item
- He used it to listen and transmit with amateur satellites
- Everyone really enjoyed his presentation and asked many questions
- The general comment was – this is what ham radio is all about

9:00
- Motion to adjourn – Jeff Locke – (N5LOC)
- 2nd the motion – John Briggs – (KC6TVF)
- All agreed
- Meeting adjourned

Do you need to join or renew your membership in the Sachse Amateur Radio Association?
Print the next page, fill it out, and bring the form to the next club meeting.

KF5NBO

SARA SKYWAVES

MARCH

Sachse Amateur Radio Association Membership Application

Sachse Amateur Radio Association Sachse, Texas 75048-3696 www.sachseradio.org kf5nbo@gmail.com

Type of Application: New Member ☐ **Renewal** ☐ **Date:**_____

Your Call Sign:_____ **Your License Class:**_____

Your Name:_____ **Spouses Name:**_____

Address:_____

City:_____ **State:**_____ **Zip:**_____

Home Phone:_____ **Work Phone:**_____

Cell Phone:_____ **Email:**_____

Membership Types: Please check only one option below:

☐ **Regular:** A regular member shall be any FCC licensed amateur radio operator who does not fall under the special provision of an associate or student membership. Regular member dues are $25.00 per year unless prorated (see below).

☐ **Family:** A family membership shall be any FCC licensed amateur radio operators and non-licensed family members interested in amateur radio who live in the immediate household. Family member dues are $30.00 per year unless prorated (see below).

☐ **Associate:** An associate member shall be any person maintaining membership to support the association but who does not hold a license as a radio amateur. Associate member dues are $10.00 per year and are not prorated.

☐ **Student:** A student member shall be any FCC licensed amateur radio operator who is currently enrolled as a full time student, is 18 years of age or younger, and is not otherwise eligible to be included in a family membership. Student member dues are $10.00 per year and are not prorated.

If selecting Family membership, please list the family members covered by this application.

Name:_____ **Email:**_____ **Call Sign (if any):**_____ **Lic Class:**_____

Name:_____ **Email:**_____ **Call Sign (if any):**_____ **Lic Class:**_____

Membership Dues: (Please check only one)

Dues are initially paid upon joining the association. Renewal dues are paid no later than the September meeting each year. A new application must be submitted each year as well. Dues are reduced (prorated) for Regular and Family members (only) who join or renew their membership after Dec 31st:

☐ Joining Sep 1 thru Dec 31, pay $25.00 for Regular dues, or $30.00 for Family dues.
☐ Joining Jan 1 thru Mar 31, pay $18.75 for Regular dues, or $22.50 for Family dues.
☐ Joining Apr 1 thru Jun 30, pay $12.50 for Regular dues, or $15.00 for Family dues.
☐ Joining Jul 1 thru Aug 31, pay $6.25 for Regular dues, or $7.50 for Family dues.

TOTAL DUE: $_____

Are you a current member of the ARRL? ☐ YES or ☐ NO (please chose one).

By submitting this application, either by hand or any electronic means, you hereby agree to abide by the rules and regulations of the Sachse Amateur Radio Association.

Signature:_____

Please join us on the net (145.250 MHz, 141.3 PL) on Wednesdays at 8pm.